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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/528,392	11/14/2005	Theo Burchard	2732-166	7025
649 7590 11062099 ROTHWELL, FIGG, ERNST & MANBECK, P.C. 1425 K STREET, N.W. SUITE 800 WASHINGTON, DC 20005			EXAMINER	
			CORDRAY, DENNIS R	
			ART UNIT	PAPER NUMBER
		1791		
			NOTIFICATION DATE	DELIVERY MODE
			11/06/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

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Application No. Applicant(s) 10/528,392 BURCHARD ET AL. Office Action Summary Examiner Art Unit DENNIS CORDRAY 1791 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 6/30/2009 and 10/8/2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-18 and 20-29 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-18 and 20-29 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)
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Paper No(s)/Mail Date 10/8/2009.

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6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Response to Arguments

Applicant's arguments and amendments, filed 6/30/2009, have overcome the rejection of Claims 1, 3, 5, 8-10 and 13 over Patzold et al alone and of Claims 2, 4, 6, 7, 11, 12 and 14-23. Applicant's arguments regarding the combination of Patzold et al, Howland et al, Tooth et al and, Murakami et al in rejecting Claims 24 and 25 is convincing. Murakami et al makes no mention that the security paper can be a photographic paper having the claimed basis weight. Therefore, the rejections of all Claims as currently formulated have been withdrawn. However, upon further consideration, a new grounds of rejection are made as detailed below.

Applicant's arguments regarding the Examiner's discussion of strain properties, see pp 11-12, are convincing. The discussion is no longer used.

Regarding Howland et al and Tooth et al, see p 10, the references were used to disclose methods of making security paper and various security elements added to security paper, not to replace the photographic paper of Patzold et al with the paper of Howland et al or Tooth et el.. The references disclose that security paper can be in the form of banknotes, ID cards, drivers licenses, credit cards, passports, decorative laminates, wallpaper, etc (Howland et al, col 5, lines 6-12; Tooth et al, col 3, line 62 to col 4, line 10). Many of the disclosed kinds of security documents are information carriers and/or can comprise photographs. The disclosed security elements and methods are applicable generally to a wide variety of security and decorative products

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and would have been obvious to one of ordinary skill in the art to apply to the security paper of Patzold et al.

Regarding Hoeppner et al, see p 11, disclosed examples and preferred embodiments do not constitute a teaching away from a broader disclosure or nonpreferred embodiments. In re Susi, 440 F.2d 442, 169 USPQ 423 (CCPA 1971). "A known or obvious composition does not become patentable simply because it has been described as somewhat inferior to some other product for the same use." In re Gurley, 27 F.3d 551, 554, 31 USPQ2d 1130, 1132 (Fed. Cir. 1994) Furthermore, "[t]he prior art's mere disclosure of more than one alternative does not constitute a teaching away from any of these alternatives because such disclosure does not criticize, discredit, or otherwise discourage the solution claimed...." In re Fulton, 391 F.3d 1195, 1201, 73 USPQ2d 1141, 1146 (Fed. Cir. 2004). While the reference discloses personal identity cards, passports or drivers' licenses, bank cards, etc. as examples of security products, Hoeppner et al also states that any desired security documents and documents of value can be produced by the process according to the invention (p 1, par 4).

Regarding the water soluble adhesive, see p 12, absent convincing evidence of unobvious results from using the claimed adhesive, one of ordinary skill in the art would have found it obvious to use any laminating adhesive, including a water soluble adhesive, as functionally equivalent adhesives and have a reasonable expectation of success in obtaining a laminate.

Regarding the use of polyamide fibers, see p 13, Nigam discloses examples of synthetic fibers used in making papers and the use of such fibers in making the papers

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of Patzold et al would have been obvious to one of ordinary skill in the art. However, in response to Applicant's challenge, a new reference is incorporated in the rejections herein.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

 Claims 1, 3, 5, 8-10, 13 and 24-26 are rejected under 35 U.S.C. 103(a) as unpatentable over Patzold et al (4455359) in view of Tamagawa et al (4830928).

Patzold et al discloses a tamper proof document comprising a photographic information carrier, the carrier comprising a paper or polyolefin laminated paper and photographic emulsion layer. The carrier is laminated on both sides all over to a transparent plastic foil by means of an adhesive layer (Abs; col 1, lines 1-15 and 61-65; col 3, lines 31-50; col 4, lines 4-8; col 6, line 61 to col 7, line 2). The plastic foil has a thickness from 15 to 250 mm (col 4, lines 61-63), which overlays the claimed ranges. The document has security features in the foil and/or in the paper layer, such as printed images, writing, embossing, watermarks (in the paper layer), magnetically or optically readable data, etc. (col 4, lines 15-35). Any paper can be folded or creased and the foils on opposing sides of the paper are under different strains (one side under compressive strain and the other side under tensile strain) when the paper is folded or creased or, at least, different strains would have been obvious to one of ordinary skill in the art.

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Patzold et al discloses that the document is intended to contain information relating to the owner and, in some embodiments, may be used for credit or cash free transactions, thus is a value document (col 1, lines 6-15). Alternatively, making a value document would at least have been obvious to one of ordinary skill in the art.

Patzold et al does not disclose the claimed paper layer weight.

Tamagawa et al discloses a photographic paper support comprising a base paper containing a cationic softening agent and a polyethylene coating on both sides of the paper and preferably comprising a surface sizing (Abs; col 2, lines 3-21). The support has improved surface smoothness and is free of troubles such as blackening and cockling. The base paper has a basis weight of 80-200 g/m² (col 3, lines 39-41).

The art of Patzold et al and the instant invention is analogous as pertaining to security papers and value documents. The art of Patzold et al and Tamagawa et al is analogous as pertaining to photographic papers. Patzold et al discloses a security or value document comprising a photographic paper. Tamagawa et al discloses an improved photographic paper. It would have been obvious to one of ordinary skill in the art to use a photographic paper having the claimed basis weight and having a softening agent in the product of Patzold et al in view of Tamagawa et al to obtain the advantages disclosed by Tamagawa et al.

 Claims 2, 4, 6, 7, 14-16, 20-22 and 27-29 are rejected under 35 U.S.C. 103(a) as unpatentable over Patzold et al in view of Tamagawa et al and further in view of

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Howland et al (5868902) and Tooth et al (4462866) and as evidenced by Haylock (Paper, Its making, merchanting and usage).

The disclosures of Patzold et al and Tamagawa et al are used as above. Patzold et al also discloses a method step of laminating a plastic film to both surfaces of a paper all over (col 6, lines 30-32 and 61-68; col 7, lines 1 and 2).

Patzold et al and Tamagawa et al do not disclose that the paper layer is interrupted, the use of intaglio printing, the kind of fibers used in the paper, that the paper is produced on a papermaking machine, that the foil is printed after application, or that the document is a bank note or check.

Claims 2, 6, 7, 14, 21 and 27-29: Howland et al discloses a security paper comprising a plastic film applied to both surfaces and method of making the paper, the method comprising producing the paper in a paper machine from natural and/or synthetic fibers, drying the paper and then coating the paper on both surfaces with a coating containing polyurethane. The coating forms a film, or thin layer or foil, that provides chemical and mechanical protection for the paper (Abs; col 2, lines 17-24; col 4, lines 1-7; col 4, line 28 to col 5, line 5; cols 5-9. Examples).

Howland discloses that the paper layer comprises a security feature, such as a watermark and/or embedded or windowed security thread which incorporates visual or covert security elements (col 4, lines 16-19). The paper layer is interrupted where the window occurs.

In some embodiments, the coating comprises an iridescent, phosphorescent or fluorescent pigment or magnetic particles as security features (col 3, lines 32-61). In

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other embodiments, a foil, hologram or kinogram is affixed to the paper after it is made and coated (applied to the film after application to the paper), either before or after printing (Claims 1, 16 and 17).

Howland does not disclose laminating the plastic foil to the paper.

Tooth et al discloses a security paper comprising a paper layer having a watermark and an embedded security thread visible in windows formed in the paper (Abs; col 3, lines 6-19). The security paper comprises a plastic film overlay covering the whole of one or more surfaces. The overlay can be a plastic film that is adhered to the paper by an adhesive (laminated) or an overlay applied as a liquid that subsequently forms a film adherent to the surface by evaporation of the solvent or polymerization and curing in situ (col 3, lines 28-56). Thus it is known in the art to apply preformed films or foils (obviously self-supporting) to a security paper or to form the films from a liquid applied to the paper as functionally equivalent options.

The art of Patzold et al, Tamagawa et al, Howland et al, Tooth et al and the instant invention is analogous as pertaining to making security papers comprising a paper layer with a plastic foil layer on each side. It would have been obvious to one of ordinary skill in the art to make a paper layer on a papermaking machine from natural and/or synthetic fibers in the process and paper of Patzold et al in view of Tamagawa et al and further in view of Howland et al and Tooth et al as a typical papermaking process. Cotton would have been obvious to one of ordinary skill in the art as a typical source of natural annual fibers (if evidence is needed, see Haylock, p 22). Providing a

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window interrupting the paper layer in which a security element is visible would have been obvious as a well known security feature of such papers.

Claims 4, 15 and 16: Howland et al discloses printing the coated paper via intaglio printing (col 4, lines 53-54; col 5, lines 6-9; col 5, lines 61-62, Example 1). Although not explicitly disclosed, printing images, words and/or indicia by intaglio printing would have been obvious to one of ordinary skill in the art as functionally equivalent options for adding information to the paper.

Claims 20 and 22: Howland et al discloses that the paper can be a banknote, identification document, driving license, passport, etc. (col 5, lines 10-12). Tooth et al discloses that the paper can be a banknote, cheque, identity card, credit card, etc.(col 3, lines 62-66). Making a banknote would have been obvious as a typical end product of such security papers.

 Claims 11, 12, 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Patzold et al in view of Tamagawa et al and further in view of Hoeppner et al (US 2002/0022112).

The disclosures of Patzold et al and Tamagawa et al are used as above. Pa

Patzold et al and Tamagawa et al do not disclose extrusion or cold lamination of a film

or a water soluble adhesive. Patzold et al and Tamagawa et al also do not disclose that
security features are in register with one another or form a combined information

pattern.

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Hoeppner et al discloses a multilayer security or value document and process for making, the process comprising printing a paper on one or both sides, then extruding a plastic film layer to one or both sides of the paper. The extruded film comprises laser active pigments that permit subsequent personalization with a laser. The paper thus coated can be printed and/or embossed with various additional security features, and further marked, engraved or perforated using a laser (Abs; p 1, pars 14 and 16; p 3, pars 40-45). The coated and printed papers can be coated with an adhesive and further laminated with an upper and lower covering film, the surface of which can be embossed and/or printed with security colors (p 3, pars 46-49). Heat is not required, thus the films are cold-laminated. The different layers have different properties, such as being doped, being sensitive to laser light, having integrated security features or materials, etc. (p 2, par 29).

Hoeppner et al discloses advantages of the extrusion and lamination processes that include accurate register of the various security features in the layers (p 1, par 13; p 2, pars 22-24; p 3, par 54). Hoeppner et al teaches that joining the layers in accurate register with one another is required in a security document. The security features in the layers thus form a combined information pattern.

Hoeppner et al discloses that the process can be used to produce value documents and other security papers. The carrier paper (paper layer) can comprise various security features, such as threads, holograms, etc. (p 1, par 4).

The art of Patzold et al, Tamagawa et al, Hoeppner et al and the instant invention is analogous as pertaining to the manufacture of multilayered security papers. Absent

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convincing evidence of unexpected results, it would have been obvious to one of ordinary skill in the art at the time of the invention to apply a plastic layer to the paper layer of Patzold et al in view of Tamagawa et al and further in view of Hoeppner et al by extrusion or by cold lamination using an adhesive to provide accurately registered layers in which the security features are in register with, or complement, one another to form a combined information pattern. The motivation would have been to provide products consistent in appearance and easily identified but that are difficult to forge due to multiple security features. Absent convincing evidence of unexpected properties derived therefrom, it would have been obvious to use any laminating adhesive, including the claimed water-soluble adhesive, and have a reasonable expectation of success in achieving the laminated product.

 Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Patzold et al in view of Tamagawa et al and further in view of Hoffman (3489643).

The disclosures of Patzold et al and Tamagawa et al are used as above. Patzold et al and Tamagawa et al do not disclose polyamide fibers.

Hoffman discloses that long undrawn polyamide fibers incorporated into nonwoven papers improve tear strength, resistance to tear propagation, greater elongation to break and improved stretchability (Abs; col 1, lines 61-72; col 2, lines 1-3; col 4, lines 29-31 and 44-50). Papers so made can be used for photographic paper, bank notes, etc. (col 3, lines 25-27).

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The art of Patzold et al, Tamagawa et al, Hoffman and the instant invention is analogous as pertaining to the manufacture of photographic papers. It would have been obvious to one of ordinary skill in the art at the time of the invention to use polyamide fibers in the paper layer of Patzold et al in view of Tamagawa et al and further in view of Hoffman to obtain the disclosed improved tear and stretchability properties.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DENNIS CORDRAY whose telephone number is (571)272-8244. The examiner can normally be reached on M - F, 7:30 -4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Dennis Cordray/ Examiner, Art Unit 1791

/Eric Hug/ Primary Examiner, Art Unit 1791